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Claims

1. A multilayer composite which comprises the following layers bound directly to one another:
- I. a layer I of a polyamide molding composition;
- II. a layer II of a bonding agent comprising at least 50% by weight of a mixture of
- a) from 30 to 70 parts by volume polyamide and
- b) from 70 to 30 parts by volume of polyolefin,
- where the sum of the parts by volume is 100 and in addition at least some of the polyamide is present either in the form of a polyamide-polyolefin graft copolymer or as a highly branched polyamine-polyamide copolymer prepared using the following monomers:
- a) from 0.5 to 25% by weight, based on the polyamine-polyamide copolymer, of a polyamine containing at least 4 nitrogen atoms and a number average molecular weight M_n of at least 146 g/mol, and
- β) polyamide-forming monomers selected from among lactams, ω-aminocarboxylic acids and/or equimolar combinations of diamines and dicarboxylic acids;
- III. if desired a layer III of a polyolefin molding composition.
2. A molding composition prepared by reacting
- a) from 30 to 70 parts by volume of the polyamine-polyamide copolymer as defined in claim 1 and
- b) from 70 to 30 parts by volume of polyolefin with a maximum of 10% by weight of a free-radical donor, based on the sum of the components a) and b).

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3. The molding composition as claimed in claim 2, wherein from 0.1 to 90% by weight of the polyamine-polyamide copolymer is replaced by a conventional polyamide.